

## CURRICULUM VITAE

## PERSONAL INFORMATION

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## EDUCATION AND PROFESSIONAL TRAINING

Medical Bachelor, National Defense Medical Center, Taipei, Taiwan, R.O.C.	1976-1983
Internship, Tri-Service General Hospital, Taipei, Taiwan, R.O.C.	1982-1983
Residency, Obstetrics and Gynecology, Tri-Service General Hospital Taipei, Taiwan, R.O.C.	1983-1987
Doctor of Philosophy, Cornell University, Graduate School of Medical Sciences, Sloan-Kettering Division, Program of Cell Biology & Genetics, New York, New York, U.S.A.	1987-1992

## LICENSURE AND PROFESSIONAL EXPERIENCE

Licensed Physician, Taiwan, R.O.C.,	1983-
Qualified Obstetrician and Gynecologist, R.O.C.	1986-
Teaching Assistant, Department of Obstetrics and Gynecology, National Defense Medical Center, R.O.C.	1983-1987
Pre-Doctor Research Fellow, Program of Molecular Biology, Memorial Sloan-Kettering Cancer Center, U.S.A.	1988-1992
Associate Professor, Department of Obstetrics and Gynecology, National Defense Medical Center, R.O.C.	1992-1999
Chief, Section of Obstetrics and Gynecology, The 820 Army Hospital, King Men, R.O.C.	1992-1993.
Director, Department of Civilian Clinic, The 820 Army Hospital,	

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King Men, R.O.C.	1992-1993.
Chief Resident, Department of Obstetrics and Gynecology, Tri-Service General Hospital, R.O.C.	1993-1994.
Attending Staff, Department of Obstetrics and Gynecology, Tri-Service General Hospital, R.O.C.	1993-1996
Director, Laboratory of Molecular Oncology, Joint Research Center, National Defense Medical Center, R.O.C.	1994-2000
Chairman, Joint Research Center, National Defense Medical Center	1994-1999
Chief, Section of Gynecology, Department of Obstetrics and Gynecology, Tri-Service General Hospital, R.O.C.	1997-
Adjunct Associate Professor, Department of Obstetrics and Gynecology National Taiwan University Medical College	1999-2000
Professor, Department of Obstetrics and Gynecology, National Defense Medical Center, R.O.C.	1999-
Dean, Graduate Institute of Medical Sciences, National Defense Medical Center, R.O.C.	2001-

## AWARDS AND HONORS

The Third Graduate Prize, Department of Medicine, National Defense Medical Center,  
Taiwan, R.O.C., 1983  
Fellowship of Oversea Graduate Study, Department of National Defense, R.O.C. 1987-1992.  
Award of Academic Achievement, Memorial Sloan-Kettering Cancer Center, New York, U.S.A.,  
1992.  
Medal of Scholarship, Department of National Defense, Executive Yuan, R.O.C., 1992.  
Medal of Noble Star, the Army of R.O.C., 1994.  
Scholarship of Medical Research, Academia Sinica, R.O.C., 1996.  
Award of Distinguished Physician, 1996, Department of National Defense, Executive Yuan,  
R.O.C., 1996.  
Award of Distinguished Teacher, 1997, Department of National Defense, Executive Yuan,  
R.O.C., 1997.  
Medal of Scholarship, Department of National Defense, Executive Yuan, R.O.C., 1997.  
Medal of Distinguished Service, Government of Republic of China, 1998.  
Research Fellowship, National Science Council, 1999  
The First Prize of Annual Research Report, Tri-Service General Hospital, 1999  
Award of Medical Research Report, National Defense Medical Center, 1999  
The 1999 Merck Foundation Research Award, Taiwan Association of Gynecology, 1999  
Award of Distinguished Research Paper, Chien-Ten Hsu's Foundation of Cancer Prevention,  
2000  
Research Fellowship, National Science Council, 2000  
Scholarship of Medical Research, Academia Sinica, R.O.C., 2000

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Award of Distinguished Paper , 5<sup>th</sup> International Conference of The Asian Clinical Oncology Society, ACOS TAIPEI, 2001

Award of Distinguished Teaching of Special Credit, Department of National Defense, R.O.C., 2002

Award of Distinguished Paper. 7<sup>ty</sup> Joint Conference of Cancer, Taiwan, R.O.C., 2002.

## PUBLICATIONS

1. Shih MT, Hsu CH, Yu MH, Chu TY, Shun D, Chang JS, Chen WH, and Lao CS (1986). The program for in vitro fertilization at Tri-Service General Hospital. J Ob/Gyn ROC, 25(4): 229-237.
2. Tyan HS, Chu TY, Chen WH, and Shih MT (1987). Natural killer cell activity in patients of premalignant and malignant cervical neoplasia. J Ob/Gyn of ROC, 26(3): 169-174.
3. Shih M., Yu MH, Chu TY, Sun D, Lee CK, and Hsu CT (1988). A Mobile Oocyte Incubation Unit (MOIU): a device for improvement of the gamete intrafallopian transfer (GIFT) program. J IVF & ET, 5: 188-194. (SCI)
4. Shih MT, Chu TY, Hsu CH, Yu MH, Chang JS, Sun D, Lao ZH, Wu KT, Lee CK, Yang CL, et al., (1988). FSH, LH, PRL and E2 levels in follicular fluid and serum of patients undergoing follicle stimulation with different protocols for IVF. Asia Oce J Obstet Gynecol, 14: 227-232. (SCI)
5. Huang E, Nocka K, Beier DR, Chu TY, Buck J, Lahm HW, Wellner D, Leder P, and Besmer P (1990). The hematopoietic growth factor KL is encoded by the *Sl* locus and is the ligand of the *c-kit* receptor, the gene product of the *W* locus. Cell, 63: 225-233. (SCI)
6. Nocka K, Tan JC, Chiu E, Chu TY, Ray P, Traktman P, and Besmer P (1990). Molecular bases of dominant negative and loss of function mutations at the murine *c-kit/White Spotting* locus: *W*<sup>37</sup>, *W*<sup>V</sup>, *W*<sup>41</sup> and *W*. EMBO J, 9: 1805-1813. (SCI)
7. Ray P, Higgins, KM, Tan JC, Chu TY, Yee NS, Nguyen H, Lacy E, and Besmer P (1991). Ectopic expression of a *c-kit/W*<sup>42</sup> minigene in transgenic mice: recapitulation of *W* phenotypes and evidence for *c-kit* function in melanoblast progenitors. Genes & Develop, 5: 2265-2273. (SCI)
8. Duttlinger R, Manova K, Chu TY, Gyssler C, Zelenetz AD, Bachvarova RF, and Besmer P (1993) *W*-sash affects positive and negative elements controlling *c-kit* expression: ectopic *c-kit* expression at sites of *kit*-ligand expression affects melanogenesis. Development, 118: 705-717. (SCI)
9. Tsao YP, Chu TY, Chen TM, Yang YF, and Chen SL (1994) The effects of E5a and E7 genes of human papillomavirus type 11 on immortalized human epidermal keratinocytes and NIH 3T3 cells. Archiv of Virol, 138: 177-185. (SCI)
10. Chu TY\*, Besmer P (1995) The genomic structure of the proto-oncogene *c-kit* encoded at the murine *White Spotting* Locus. J Biomed Sci, 2: 36-45. (SCI)
11. Chu TY\* and Besmer, P. (1995) Characterization of the promoter of the proto-oncogene *c-kit*. Proc Natl Sci Counc, Part B, ROC, 19: 8-18.
12. Duttlinger, R., Manova, K., Berrozpe, G., Chu, T.Y., DeLeon, V., Timokhina, I., Chaganti,

- R.S.K., Zelenetz, A.D., Bachvarova, R.F., Besmer, P. (1995) The *W<sup>sh</sup>* and *Ph* mutations affect the c-kit expression profile: c-kit misexpression in embryogenesis impairs melanogenesis in *W<sup>sh</sup>* and *Ph* mutant mice. *Proc Natl Acad Sci, USA*, 92: 3754-3758. (SCI)
13. Yang, Y.F., Tsao, Y.P., Yin, C.S., Chen, S.L., Chu, T.Y.\* (1996) Overexpression of the proto-oncogene *c-jun* in association with low risk type specific human papillomavirus infection in condyloma acuminata. *J of Med Virol*, 48: 302-307. (SCI)
14. Yian MT, Chen HH, Yin CS, Chu TY (1996) Postcoital hemoperitoneum without identifiable bleeding source: a case report. *Chin Med J (Taipei)*, 58: 291-3.
15. Chen CH, Yin CS, Chu TW, Chu TY, Chen WH, Hsiao HS (1997) Extensive thrombophlebitis with reactive thrombocytosis in a high risk Chinese parturient associated with retained placenta increta: a case report. *Chin Med J (Taipei)*, 60: 224-227.
16. Chu TY, Shen CY, Chiou YS, Lu JJ, Perng CL, Yu MS, and Liu HS (1998) HPV associated cervical cancers show frequent allelic loss at 3p14 but no apparent aberration of *FHIT* mRNA. *Int J Cancer*, 75: 199-204. (SCI)
17. Liu HS, Yu MH, Chang YK, Chu TY (1998) Second and early third trimester pregnancy termination by extraamniotic balloon and intracervical PGE2. *Int J Gynecol Obstet*, 60: 29-34.(SCI)
18. Inoue S, Lin SL, Chang T, Wu SH, Yao CW, Chu TY, Troy FA, and Inoue Y (1998) Identification of free deaminated sialic acid (2-keto-3-deoxy-D-glycero-D-galactomononic acid) in human red blood cells and its elevated expression in fetal cord red blood cells and ovarian cancer cells. *J Biol Chem*, 273: 27199-27204. (SCI)
19. Liu HS, Chu TY, Yu MH, Chang YK, Ko CS and Chao CF (1998) Thromboxane and prostacyclin in the maternal and fetal circulation of preeclampsia. *Int J Gynecol Obstet*, 63: 1-6. (SCI)
20. Liu HS, Chu TY, Yu MH, Chang YK and Chen WH (1998) Extra-amniotic balloon with PGE2 versus extraovular Foley catheter with PGF2  $\alpha$  in mid-trimester pregnancy termination. *Int J Gynecol Obstet*, 63: 51-54. (SCI)
21. Chang CC, Liu HS, Chu TW, Chu TY, Yiang YT, Yu CP (1998) A huge ovarian solid tumor with massive ascites: a case report. *Taiwanese J Obstet Gynecol*, 37: 103-107.
22. Chu TY\*, Shen CY, Lee HS, Lai CH and Liu HS (1999) Monoclonality and surface lesion-specific microsatellite alterations in premalignant and malignant neoplasia of uterine cervix: A local field effect of genomic instability and clonal evolution. *Gene Chromosome & Cancer*, 24: 124-134. (SCI)
23. Chu TY\*, Lai JS, Shen CY, Liu HS, and Chao TF (1999) Frequent aberrations of the TGF-  $\beta$  receptor II gene in cell lines but no apparent mutation in preinvasive and invasive carcinomas of uterine cervix. *Int J Cancer*, 80: 506-510. (SCI)
24. Liu HS, Chu TY, Chang YK, Yu MH and Chen WH (1999) Intracervical misoprostol as an effective method of labor induction at term. *Int J Gynecol Obstet*, 64(1):49-53, 1999 Jan. (SCI)
25. Lai HC, Sun JA, Yu MS, Chen HC, Liu HS, Chu TY\* (1999) Favorable clinical outcomes of cervical cancers infected with human papillomavirus type 58 and its related types. *Int J Cancer*, 84: 553-557. (SCI)

26. Ding DC, Chu TY, Liu HS, Yu CP (1999) Vulvar schwannoma: a case report. *Taiwanese J Obstet Gynecol*, 38: 113-117.
27. Ding TC, Chu TY\*, Liu JY (2000) Menstration-induced uterine rupture. *Int J Gynecol Obstet*, 69: 171-172. (SCI)
28. Sun CA, Yang CJ, Chu TY, Hsieh CY, You SL, Yu MH (2000). Misclassification of human papillomavirus infection in epidemiological studies: Nature and consequences. *J Med Sci* ; 20:333-341.
29. Sun CA, Chu TY, Yang CJ, Wu DM, Hsieh CY, You SL, Yu MH. (2000) Understanding the epidemiology of genital human papillomavirus infection in women: Importance of data on type-specific infections. *J Med Sci* ;20:470-480.
30. Chen CH, Huang RL, Yu MS, Wong LJ, Chao TF and Chu TY\* (2001) Hereditary non-polyposis colorectal cancer with gynecologic malignancies: report of two families in Taiwan. *J Formos Med Assoc*, 100: 269-273. (SCI)
31. Sun CA, Lai HC, Chang CC, Neih S, Yu CP and Chu TY\* (2001) The significance of HPV viral load in prediction of histological severity and size of squamous intraepithelial lesions of uterine cervix. *Gynecol Oncolog*, 83: 95-99. (SCI)
32. Sun CA, Liu JF, Wu DM, Neih S, Yu CP, Chu TY\*(2002). Viral load of high-risk human papillomavirus in cervical squamous intraepithelial lesions: A hospital-based case-control study in Taiwan. *Int J Gynaecol Obstet*. 76(1):41-47 (SCI)
33. Chu TY\*, Hwang KS, Yu MH, Chen HJ, Lee HS, Lai HC and Liu JY (2002) A research-based gynecologic tumor tissue bank for molecular oncology: characteristics of nucleic acids extracted from normal and tumor tissues from different sites. *Int J of Gynecol Cancer*, 12: 171-176 (SCI)
34. Lai HC, Stywu HK, Sun CA, Yu MH, Yu CP, Liu HS, Chang CC , Chu TY\* (2002) Single nucleotide polymorphism at *FAS* promoter is associated with cervical carcinogenesis, *Int J Cancer*, 2003 Jan 10;103(2):221-5.

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## ABSTRACTS

1. Chu TY, Shih MT, and Lee CK (1984): The tuboplasty in Tri-Service General Hospital. The 76th Scientific Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
2. Chu TY, Shen TC, Whang HW, etc. (1984): Optimal insulin administration in diabetic pregnancy. The 5th Annual Meeting of the Diabetic Association & Endocrinology Society of R.O.C., Taipei, R.O.C..
3. Chu TY, Shih MT, etc. (1985): The IVF-ET program in T.S.G.H. The 79th Scientific Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
4. Chu TY, Yu MS, and Shih MT (1985): A deliberate hypotensive technique during radical hysterectomy and pelvic lymph node dissection. The 13th Annual Meeting of the Chinese Medical Association, Taipei, R.O.C..
5. Chang J.S, Chu TY, Shih MT, and Pang TK (1985): The preliminary study of SPA in abnormal pregnancy. The 79th Scientific Meeting of the Association of OBS & GYN of the

- R.O.C., Taipei, R.O.C..
6. Chen WH, Yu MS, Chu TY, Chang JS, Leo JS, Lao ZH, and Shih MT (1985): An evaluation of 209 infertile couples. The 79th Scientific Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
  7. Chang JS, Lao ZH, Hsu CH, Yu MS, Chu TY, and Shih MT (1985): The experience of embryo transfer at Tri-Service General Hospital. The 79th Scientific Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
  8. Chu TY, Cheng WH, Liu HC, and Shih MT (1986): Natural killer cell activity in patients of gynecologic cancer--preliminary report. The 81th Scientific Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
  9. Shih MT, Chang JS, Chu TY, and Pang TK (1985): The purification and identification of pregnancy-associated plasma proteins--a preliminary report. The 81st Scientific Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
  10. Tan JC, Nocka KH, Chu TY, Ray, Chiu E, and Besmer P (1990): Molecular bases of dominant negative and loss of function mutations at the murine *c-kit/W* locus: *W*<sup>37</sup>, *W*<sup>V</sup>, *W*<sup>41</sup> and *W*. The Sixth Annual Meeting on Oncogenes, Fredrick, U.S.A.
  11. Tan JC, Chu TY, and Besmer P (1991): The original *W* allele is a splicing defect resulted from a point mutation of the *c-kit* gene. The Seventh Annual Meeting on Oncogenes, Fredrick, U.S.A.
  12. Chu TY, Holloman WK, and German J (1991): Altered adenylated intermediates in the DNA ligase reaction in Bloom's syndrome cells. Workshop on DNA Repair with Emphasis on Eukaryotic Systems, Noordwijkerhout, Netherlands.
  13. Chu TY, Nocka K, Tan J, Besmer P, and Yin CS (1992): The molecular genetics of proto-oncogene *c-kit*. The 98th Scientific Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
  14. Chu TY (1992): From viral oncogene to cellular oncogene: The genetic and developmental roles of *c-kit*. Symposium on "Oncogenes, Antioncogenes and Cancer", Taipei, R.O.C..
  15. Chu TY, Ray, Tan J, Besmer P, and Yin CS (1992): White spotting phenotypes in transgenic mice ectopically expressing the dominant negative *c-kit*(*W*<sup>42</sup>) mutation. Trends in Ob-Gyn International Symposium, Taipei, R.O.C..
  16. Chu TY, Yang YF, Yin CS, Tsao YP, and Chen SL (1994): Induction of the proto-oncogene *c-jun* as a mechanism of HPV-11 induced cell transformation and genital neoplasia. The 22nd Meeting of the International Society for Oncodevelopmental Biology and Medicine, Groningen, Netherlands.
  17. Shieh TB, Chu TY, Yin CS, and Chen SL (1994): Spatial characterization of *c-jun* expression in CIN and invasive cervical cancer, relationship with HPV infection. The 1994 annual Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
  18. Liu JY, Chu TY, et al., (1994): Fetal tissue procurement for transplantation. The 1994 annual Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
  19. Chu TY, Tsao YP, Chen SL, Kwo YW, Jian SY, Yee MY, and Yin CS (1995): Toward the gene therapy of human cervical cancer: the gene therapy research program of N.D.M.C. The 1995 annual Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
  20. Chu TY, Yang YF, Yin CS, and Chen SL (1995): HPV induced cervical carcinogenesis:

- clinical application of HPV detection and typing. The 1995 annual Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
21. Inoue S, Lin SL, Chu TY, Yao CW, Wu SH, and Inoue Y (1997) Occurrence of a new sialic acid, KDN, in mammals including human. The 17th International Congress of Biochemistry and Molecular Biology, 1997 Annual Meeting of the American Society for Biochemistry and Molecular Biology.
  22. Chu TY, Chiou YS, Perng CL, Lu JJ, Liu HS, and Shen CY (1997) The *FHIT* gene does not confer the frequent loss of heterozygosity at chromosome 3p14 in cervical cancer. The Second Joint Conference of Cancer Societies in Taiwan, Taipei.
  23. Chu TY, Chiou YS, Lu JJ, Liu HS, and Shen CY (1997) Aberration of the *FHIT* gene in cervical carcinomas. The XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark.
  24. Chu TY, Lee HS, Chiou YS, Jen SL, Shen CY, and Liu HS (1997) Frequent Genetic Aberrations in Cervical Intraepithelial Neoplasia. 1st Terry Fox & Cherang Gung Memorial Hospital International Cancer Symposium on Cervical Cancer. Taipei, Taiwan.
  25. Chu TY (1998) The pathogenesis of HPV-induced genital neoplasia. New Horizon in Obstetrics & Gynecology, Tainan, Taiwan.
  26. Chu TY, Shen CY, Lee HS, Lai CH, and Liu HS (1998) Monoclonality, frequent allelic loss and microsatellite instability in multifocal cervical intraepithelial neoplasia: A local field effect of genomic instability, gene mutation and clonal evolution of cervical carcinogenesis. The 1998 annual Meeting of the Association of OBS & GYN of the R.O.C., Taipei, R.O.C..
  27. Chu TY, Shen CY, Lee HS, Chen CH, Liu HS, and Yeh MY (1998) Allele loss and genome instability at chromosome 3p is an early event in cervical carcinogenesis. 89<sup>th</sup> Annual Meeting of American Association for Cancer Research, New Orleans, Louisiana, U.S.A.
  28. Chen HJ, Lai CH, Chu TY, Yu MS, and Liu HS (1998) The prognostic value and clinical parameters of HPV genotypes in cervical cancers in Taiwan. The 1<sup>st</sup> International Congress of HPV and Cervical Cancer. Montreal, Canada.
  29. Chu TY, Shen CY, Lee HS, Lai CH, and Liu HS (1998) Monoclonality and surface lesion-specific microsatellite alterations in premalignant and malignant neoplasia of uterine cervix: A local field effect of genomic instability and clonal evolution. The 23<sup>rd</sup> ESMO Congress. Athens, Greece.
  30. Chu TY, Lai JS, and Shen CY (1999) Frequent deletion of the TGF- $\beta$  receptor II gene in cervical cancer cell lines but no apparent mutation in tumor tissues. 90<sup>th</sup> Annual Meeting of American Association for Cancer Research, Philadelphia, U.S.A.
  31. Chu TY (1999) A model of field carcinogenesis and clonal evolution in cervical cancer. The 1999 annual meeting of Taiwan Association of Gynecologic Oncology, Taipei, Taiwan.
  32. Chu TY, Lai HC, Sun CA (2000) Favorable clinical outcomes of cervical cancers infected with human papillomavirus type 58 and its related types. EUROGIN 2000 4<sup>th</sup> International Multidisciplinary Congress, Paris, France.
  33. Chu TY, Sun CA, Chen CY (2000) Plasma HPV viral load as an indicator of

- HSIL and Invasive cancer of uterine cervix. EUROGIN 2000 4<sup>th</sup> International Multidisciplinary Congress, Paris, France.
34. Chu TY, Sun CA, Lai HC, Yu MH (2000) The significance of HPV viral load in prediction of lesion size and severity of squamous intraepithelial lesion and cervical cancer. EUROGIN 2000 4<sup>th</sup> International Multidisciplinary Congress, Paris, France.
  35. Chu TY, RL Huang, CF Chao, W Fan, LJ Wong (2000) Germline and somatic mutations of hMSH2 gene conferring the RER phenotype of a HNPCC. 91<sup>th</sup> Annual Meeting of American Association for Cancer Research, San Francisco, U.S.A.
  36. Chu TY (2001) Cervical cancer and HPV: a genetic aspect in Taiwan. 5<sup>th</sup> International Conference of the Asian Clinical Oncology Society, Taipei.
  37. Peng MY, Chu TY (2001) Human papillomavirus is detectable in virtually all cervical cancers: a comparison of contemporary HPV detection methods. 5<sup>th</sup> International Conference of the Asian Clinical Oncology Society, Taipei
  38. Chu TY, Hsu JH, Huang RL, Chen JY, Sun CA, Hsieh CY (2001) Quantitative measurement of human papillomavirus load in cervical swabs by using Hybrid Capture II assay. 5<sup>th</sup> International Conference of the Asian Clinical Oncology Society, Taipei.
  39. Chu TY, Chan HL, Chiang CL, Chen SL (2001) Preparation and characterization of human papillomavirus type 16 virus-like particle. 5<sup>th</sup> International Conference of the Asian Clinical Oncology Society, Taipei
  40. Hsieh HC, Sun CA, Tsao CF, Chu TY (2001) Metabolizing cancer-susceptibility gene polymorphism in cervical cancer. 2001 Annual Meeting of The Taiwan Association of Obstetrics and Gynecology, Taipei.
  41. Chu TY (2001) HPV diseases worldwide and in Taiwan. 2001 Annual Meeting of the Chinese Medical Association and International Symposium: Toward the Primary Prevention of Cervical Cancer: Promises and Challenges in the New Millenary, Taipei.
  42. Chu TY, Lai HC, Peng MY, Chan HL, Hsu JH (2001) HPV 16 viral load determined by Q-PCR as a diagnostic tool for cervical lesions. 19<sup>th</sup> International Papillomavirus Conference, Florianopolis, Brazil.
  43. Chu TY (2001) Human papillomavirus and cervical cancer in Taiwan: an overlooked area of IARC. The European Cancer Conference 11, Lisbon, Portugal.
  44. Chu TY, Liu DW, Chen SL (2001) Development of prophylactic and therapeutic DNA vaccines targeting at human papillomavirus 16. In: Joint Conference of gene therapy and clinical trial: Practical approaches and consensus, Taipei.
  45. Chu TY, Hsieh HC, Sun CA, Lai HC and Chao CF (2002) Polymorphism of *CYP1A1* and *GSTM1* and risk of cervical cancer development. 93<sup>th</sup> Annual Meeting of American Association for Cancer Research, San Francisco, U.S.A.
  46. Chu TY, Lai HC, Peng MY, Sun JA (2002) The value of HPV viral load



- in clinical diagnosis of cervical cancer and precancerous lesions. 2002 Annual Meeting of The Taiwan Association of Obstetrics and Gynecology, Taipei.
47. Lai HC, Peng MY, Huang RL, Lin JY, Chu TY (2002) HPV detection and genotyping: comparison of current and emerging methodologies: Hybrid Capture, PCR-reverse line blot and PCR-HPV gene chip. 2002 Annual Meeting of the Taiwan Association of Obstetrics and Gynecology, Taipei.
  48. Chu TY (2002) Human papillomavirus diseases: the spectrum of clinical diagnosis. Invited speech at "Consensus Conference in Cervical Pathology" of Taiwan Association of Pathology; Kao-Shung, Taiwan.
  49. Chu TY (2002) Combination of HPV testing and Pap smear in screening of cervical cancer: Cost- effectiveness assessment in Taiwan. 2002; Joint Conference of Cancer, Taiwan.
  50. Chu TY (2002) Clinical cohort and tissue banking: the key of translating genomic research. Invited Speech at Ma-Kai Memorial Hospital and Veteran General Hospital, Taipei.
  51. Chu TY (2002) Human papillomavirus and Cervical Cancer: Toward the novel diagnostic and preventive measures in Taiwan. Invited speech at National Chen-Gong University Medical College
  52. Chu TY, Hsieh HC, Sun CA, Lai HC, Chao CF (2002) Genetic polymorphisms of metabolizing genes and risk of cervical cancer development. Ninth Bianual Meeting of International Gynecologic Cancer Society. Seoul, Korea.
  53. ChuTY, Sun CA, Yu CP, Yu MH (2002) Toward a comprehensive genetic diagnosis of cervical cancer. In 2<sup>nd</sup> Conference on Cancer Genomics of NHRI, Tao-Yuan, Taiwan.
  54. ChuTY (2002) HNPCC: Genetic characterization and diagnosis. In Sixth Annual Meeting of Taiwan Cooperative Oncology Group, NHRI, Taipei.

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